

January 6, 2012

Pam Morrill CDM 14432 SE Eastgate Way, Suite 100 Bellevue, WA 98007

Project: Rainier Commons, 79179-78891-Task 3 Storm

ARI Job No.: UC83

Dear Pam:

Please find enclosed the Chain-of-Custody (COC) record, sample receipt documentation, and the final results for samples from the project referenced above. Analytical Resources Inc. (ARI) accepted one water sample on December 29, 2011. For details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The sample was analyzed for PCBs as requested.

There were no other anomalies associated with the analysis of this sample.

An electronic copy of this report as well as all supporting data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214

cheronneo@arilabs.com

www.arilabs.com

cc: eFile: UC83

Enclosures

Page 1 of _______

CHAIN-OF-CUSTODY

CDM

| Date /2/2 | 8/11 | Page * | of | / |
|-----------|------|--------|----|---|
| | | | | 7 |

| PROJECT INFORMA | ATION | | La | bor | rato | ry N | lum | ber | : | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------------------------------------------------|--------------------------|-------------------------------|-------|----------------|------------------|------|--------------------------|------------|--------------------|----------|--------------------------|-----------|--------------|-----------------------------------|-------------------|--------------------|--------------------|-----------------|-----------------------|-------------------|-----------------|----------------------------|--------------|---------------|------------------------|----------------------|--------------|---------------|-----|-----------|------------|---------|---------|----------------------|
| Project Manager: Pam Mok | ell/ | | | | | | | | | | | | | A | NA | LYS | is | RE | QL | JES | ST | | | | | | | | | | | | | |
| Project Name: Rainier | Commons | | LV | DD(| ROL | | Mel | OR | GAN | IC (| CON | IPO | UNE | os | PES | STS | PC | Bs | | ٨ | ΛΕΤ | 'AL | s | | | | HIN | | | ОТ | HEF | R | | |
| Project Number: 79/79 - 7886 Site Location: Sea HIC | 11-T45k3 | Stoken | 司 | 기 : | ਹੈ. ਹੈ ਹਿ | 18 | 1 | | 8 8 | | | | | | 8 8 | 9 9 | 8 | Q | Se | Or | 7 | Pri | Q | ₹ | | | | _ | | П | \exists | Τ | + | Z |
| Site Location: Sea HIE | _ Sampled By: <u>/</u> 2 | Jan | 포 | J-G | Ĭ 5 | 15M | H-St | 10 H | 20 A | 2 2 | | 10 P | 40 PI | VS - | 800 | 6 S | 00 | VS - | lecte | ganic | Μ | ority | VS - | MFSP - | 두 | 뒤 | . 1 | 뒤 | | | | | Į, | ĀR |
| DISPOSAL INFORM | ATION | | ₽ | | <u> </u> | Fuel | есіа | aloge | roma | | | 8310 PAHs | 8040 Phenois | Volat | C Pe | | 밁읎 | Herb | d Me | : Lea | TCL Metals (23) | Poll. | DWS - Metals | Met | Vola | Sem | Pest | TCLP - Metals | | | | | 1 | ä |
| Lab Disposal (return if not ind | icated) | | S | (a) | TPH-418.1 State: | Hyd | TPH-Special Instructions | nate | 8020 Aromatic VOCs | 2 2 | 82/0 GC/MS Semivolatiles | | ls | DWS - Volatiles and Semivolatiles | 8080 OC Pest/PCBs | 8140 OP Pesticides | 8150 OC Herbicides | DWS - Herb/Pest | Selected Metals: list | Organic Lead (Ca) | (23) | Priority Poll. Metals (13) | S | - Metals (Wa) | TCLP - Volatiles (ZHE) | TCLP - Semivolatiles | - Pesticides | ıs | | | | | 3 | NUMBER OF CONTAINERS |
| Disposal Method: | | | tate: | tate: | tate | ocar | ructio | 2 | င္တေ | 1 | nivo! | | | and s | Bs | es | des | | list | a) | | ıls (1 | | Va) | ZHE | iles | G, | | | | | | | ŽŢ |
| Disposed by: Dispose | al Date: | | | | | bon | Suc | င္တ | | ٥ | atiles | : | | èemi\ | | | | | | | | 3) | | | ات | | | | | | | | 1 | Ž |
| QC INFORMATION (ch | eck one) | | | | | | | | | | " | | | /olati | | | | | | | | | | | | | | | | | | | 1 | מ: |
| SW-846 CLP Screening | | | | | | | | | | | | | | les | | | | | | | | | | | | | | | | | | | | |
| SAMPLE ID DATE T | IME MATRIX | LAB ID | | | | | Ш | | | | | _ | | | | | | | | | | | | | | | | | | | _ | _ | \perp | \Box |
| 1W1056A-12/11 12/28/11 14 | 100 mater | | | | | | Ш | | | | \perp | _ | | Ш | D | 4 | | L | | | | | | | | | | | | \Box | \perp | _ | 1 | _ |
| | | | | | | | | | | | | _ | _ | | | | | _ | | | | | | | | | | | | Ш | \perp | | 1 | <u>기</u> |
| | | | | \perp | \perp | _ | | | | \perp | | _ | | | | | 1 | <u> </u> | | | | | | | | | | | | \square | \dashv | 4 | 4 | |
| | | | | | | _ | Ш | | | | | <u> </u> | ļ | | | | - | <u> </u> | | L., | | | | | | | | | | \dashv | \dashv | _ | \bot | |
| | | | | | | | Ш | | | _ | | _ | | Ц | | | L | | | | | | | | | | | | | \dashv | \dashv | _ | 4 | |
| | | | | 4 | | | | | 4 | | \perp | _ | | | | _ | \perp | L | | | | | | | | | | | | \sqcup | \perp | _ | \bot | _ |
| | | | | | \perp | 1 | | | | 4 | | 1 | | | | | | | | | | | | | | | | | | \dashv | \dashv | \perp | 4 | |
| | | <u> </u> | | | | | | | | | | | | | | | <u> </u> | | | | | | | | | | | | | Ш | \perp | | 丄 | _ |
| LAB INFORMATION | SAMF | PLE REC | EIP | Т | | | | | HŅ | | | 1EC | B | Y: | 1. | RI | ELI | NG | UI | SH | EC | B | Y: | 2 | . F | REI | LIN | IQL | JIS | HE | D E | 3Y: | | 3. |
| Lab Name ART | Total Number of Co | ontainers: | | | | | S | igna | directly | 1/ | | /_ | | Tı | me. | Sıg | natu | re | | | | | 1 | Гıme | | Sign | ature | Э. | | | | | Time |) |
| Lab Address Ceat Ce | Chain of Custody S | Seals: Y/N/N | ΙΑ | | | | - 5 | zinte | d Nar | ne | 20 | | | , D | ate | Prır | nted | Nam | е | - | | | | Date | + | Print | ed N | lame | • | | | | Date | e. |
| | Intact? Y/N/NA | | | | | | | W. | nel | <u>۾</u> | J. [| loe | Rel | | | Col | mpar | | | | | | | | +, | | pany | ., | | | | | | |
| 2000 | Received in Good (| Condition/Condition/Condition | old:: | | | | | Jonny | any | D | M | | | | | | | | | | | | | | \perp | | | | | | | | | |
| Turn Around Time: A Standard | l 24 hr. □ 48 hr. | □ 72 h | ır. | | 1 w | k. | <u></u> | | CEI | | | 3Y: | | | 1. | | | EIV | ED | В | Y : | | | | + | | | | D | BY: | <u>:</u> _ | | | 3. |
| PRIOR AUTHORIZATION IS | REQUIRED FOR | RUSH D | AT/ | 1 | | | | Signa A | ture | n | / | | í | 0.4 | me 8 | Sıg | natu | re. | | | | | 1 | Time | ٠ ١ | Sign | atur | е | | | | | Time | э. |
| Turn Around Time: A Standard PRIOR AUTHORIZATION IS Special Instructions: | | | | | | | | rinte | d Nar | ne. | | | , | | ate. | Prır | nted | Nam | е. | | | | | Date | | Print | ted N | Name |) | | | | Date | а. |
| | | | | | | | | Jo. | se (| 180 | # S | | | 2/2 | 7 | Cor | mpar | ny. | | - | | | | | + | Com | pan | y. | | | | | | |
| | | | | | | | | Ax | any | • | | | | | | | • | | | | | | | | | | | | | 2014 | | | | |

CDM Offices: Bellevue. (425) 519-8300 Seattle. (206) 336-4900 DISTRIBUTION: White, Canary to Analytical Laboratory; Pink to CDM Project Files; Gold to CDM Disposal Files



0016F

3/2/10

Cooler Receipt Form

| ARI Client CO M | Project Name Rainie | er Common | 5 |
|--------------------------------------------------------------------|-----------------------------------------------|--------------------|------------|
| COC No(s) | Delivered by Fed-Ex UPS Cou | | 1101 |
| Assigned ARI Job No. UC83 | Tracking No: | | |
| Preliminary Examination Phase: | | | NA |
| Were intact, properly signed and dated custody seals attached to | the outside of to cooler? | (YES) | NO |
| Were custody papers included with the cooler? | | | _ |
| | | | NO |
| Were custody papers properly filled out (ink, signed, etc.) | ~ 1 | YES | NO |
| Temperature of Cooler(s) (°C) (recommended 2.0-6 0 °C for cher | mistry) | - On | 2-2000111 |
| If cooler temperature is out of compliance fill out form 00070F | alaski | Temp Gun ID#: | 517 901416 |
| Cooler Accepted by | DateTIM | e | |
| | and attach all shipping documents | | · |
| Log-In Phase: | | | |
| Was a temperature blank included in the cooler? | · · · <u>· · · · · · · · · · · · · · · · </u> | YES | (NO) |
| | Wet Ice Gel Packs Baggies Foam | Block Paper Other: | |
| Was sufficient ice used (if appropriate)? | 2 / | NA YES | (NO) |
| Were all bottles sealed in individual plastic bags? | | YES | NO |
| Did all bottles arrive in good condition (unbroken)? | | MES |) NO |
| Were all bottle labels complete and legible? | | (TES) | NO |
| Did the number of containers listed on COC match with the number | ber of containers received? | (YE) | NO |
| Did all bottle labels and tags agree with custody papers? | | (PES) | NO |
| Were all bottles used correct for the requested analyses? | | YES | NO |
| Do any of the analyses (bottles) require preservation? (attach pre | eservation sheet, excluding VOCs). | NA YES | (NØ) |
| Were all VOC vials free of air bubbles? | | (NA) YES | NO |
| Was sufficient amount of sample sent in each bottle? | | (FES) |) NO |
| Date VOC Trip Blank was made at ARI | | (NA) | |
| Was Sample Split by ARI NA YES Date/Time | Equipment | Split by: | |
| -100 | 12/20/11 | - /·/ | |
| Samples Logged byDate | | 1044 | |
| ** Notify Project Manage | er of discrepancies or concerns ** | | |
| Somple ID on Robble Somple ID on COC | CI-1D D-W- | 0 10 | |
| Sample ID on Bottle Sample ID on COC | Sample ID on Bottle | Sample ID on Co | OC |
| | | | |
| | | | |
| | | | |
| Additional Notes, Discrepancies, & Resolutions: | | | |
| , , , , , , , , , , , , , , , , , , , | | | |
| | | | |
| | | | |
| By Date | | | |
| Date | | | |
| Small Air Bubbles Peabubbles LARGE Air Bubbles | Small → "sm" | | l |
| | Small → "sm" Peabubbles → "pb" | | |
| Small Air Bubbles Peabubbles LARGE Air Bubbles | | | |

Cooler Receipt Form

UC83:00003

Revision 014



Cooler Temperature Compliance Form

| | 11083 | |
|---------------|--------------------------------|-----------------------|
| Cooler#:/ | Temperature(°C): | 7,6 |
| Sample ID | Bottle Count | Bottle Type |
| 1W1056A-12/11 | 2 | 2-500 ml AG |
| | | |
| | | |
| | | |
| Cooler#: | Temperature(°C): | |
| Sample ID | Bottle Count | Bottle Type |
| | | |
| | | |
| | | |
| Cooler#: | Temperature(°C): | |
| Sample ID | Bottle Count | Bottle Type |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Cooler#: | T (%0) | |
| Sample ID | Temperature(°C): Bottle Count | Bottle Type |
| oampie ib | Bottle Count | Bottle Type |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | , |
| Completed by: | Da | e: 12/29/4 Time: /042 |

00070F

Cooler Temperature Compliance Form

Version 000

UC83: 00004^{3/3/09}

Sample ID Cross Reference Report



ARI Job No: UC83 Client: CDM, Inc.

Project Event: 79179-78891-Task 3 Storm

Project Name: Rainier Commons

| | Sample ID | ARI Lab ID | ARI LIMS ID | Matrix | Sample Date/Time | VTSR |
|----|---------------|---------------|----------------|--------|------------------|----------------|
| 1. | 1W1056A-12/11 | UC83A | 11-29536 | Water | 12/28/11 14:00 | 12/29/11 10:08 |

Printed 12/29/11

UC83:00005



ORGANICS ANALYSIS DATA SHEET PCB by GC/ECD Method SW8082

Page 1 of 1

Sample ID: 1W1056A-12/11

SAMPLE

Lab Sample ID: UC83A LIMS ID: 11-29536

Matrix: Water
Data Release Authorized:

Reported: 01/06/12

QC Report No: UC83-CDM, Inc. Project: Rainier Commons

79179-78891-Task 3 Storm

Date Sampled: 12/28/11 Date Received: 12/29/11

Date Extracted: 01/03/12 Sample Amore Analyzed: 01/05/12 02:09 Final Extract Volument/Analyst: ECD7/JGR Dilution Fac

GPC Cleanup: No Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

| CAS Number | Analyte | RL | Result |
|------------|--------------|------|----------|
| 12674-11-2 | Aroclor 1016 | 0.10 | < 0.10 U |
| 53469-21-9 | Aroclor 1242 | 0.10 | < 0.10 U |
| 12672-29-6 | Aroclor 1248 | 0.12 | < 0.12 Y |
| 11097-69-1 | Aroclor 1254 | 0.10 | 0.21 |
| 11096-82-5 | Aroclor 1260 | 0.10 | 0.14 |
| 11104-28-2 | Aroclor 1221 | 0.10 | < 0.10 U |
| 11141-16-5 | Aroclor 1232 | 0.10 | < 0.10 U |

Reported in µg/L (ppb)

PCB Surrogate Recovery

| Decachlorobiphenyl | 56.0% |
|-----------------------|-------|
| Tetrachlorometaxylene | 75.2% |

FORM I

30000 E31U



SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

QC Report No: UC83-CDM, Inc.
Project: Rainier Commons
79179-78891-Task 3 Storm Matrix: Water

| Client ID | DCBP % REC | DCBP | TCMX % REC | TCMX LCL-UCL | TOT OUT |
|---------------|---------------|--------|---------------|-----------------|---------|
| ND 010210 | 02.50 | 20 116 | 00 00 | 00 100 | • |
| MB-010312 | 93.5% | 39-116 | 82.28 | 29-100 | 0 |
| LCS-010312 | 101% | 39-116 | 81.2% | 29-100 | 0 |
| LCSD-010312 | 93.2% | 39-116 | 78.2% | 29-100 | 0 |
| 1W1056A-12/11 | 56.0% | 10-128 | 75.2% | 25-100 | 0 |

Prep Method: SW3510C Log Number Range: 11-29536 to 11-29536

FORM-II SW8082

Page 1 for UC83

UC83:00007



ORGANICS ANALYSIS DATA SHEET PCB by GC/ECD Method SW8082

Page 1 of 1

Sample ID: LCS-010312 LCS/LCSD

Lab Sample ID: LCS-010312

LIMS ID: 11-29536

Matrix: Water

Data Release Authorized: Reported: 01/06/12

Date Extracted LCS/LCSD: 01/03/12

Date Analyzed LCS: 01/05/12 01:08

LCSD: 01/05/12 01:29

Instrument/Analyst LCS: ECD7/JGR LCSD: ECD7/JGR

GPC Cleanup: No Sulfur Cleanup: Yes QC Report No: UC83-CDM, Inc. Project: Rainier Commons

79179-78891-Task 3 Storm

Date Sampled: NA Date Received: NA

Sample Amount LCS: 500 mL

LCSD: 500 mL

Final Extract Volume LCS: 1.0 mL LCSD: 1.0 mL

Dilution Factor LCS: 1.00 LCSD: 1.00

Silica Gel: No

Acid Cleanup: Yes

| Analyte | LCS | Spike Added-LCS | LCS Recovery | LCSD | Spike Added-LCSD | LCSD Recovery | RPD |
|--------------|-------|--------------------|-----------------|-------|---------------------|------------------|------|
| Aroclor 1016 | 0.743 | 1.00 | 74.3% | 0.686 | 1.00 | 68.6% | 8.0% |
| Aroclor 1260 | 0.957 | 1.00 | 95.7% | 0.877 | 1.00 | 87.7% | 8.7% |

PCB Surrogate Recovery

| | LCS | LCSD |
|-----------------------|-------|-------|
| Decachlorobiphenyl | 101% | 93.2% |
| Tetrachlorometaxylene | 81.2% | 78.2% |

Results reported in µg/L RPD calculated using sample concentrations per SW846.

UCS3: BOBBS



ORGANICS ANALYSIS DATA SHEET PCB by GC/ECD Method SW8082

Page 1 of 1

Lab Sample ID: MB-010312

LIMS ID: 11-29536

Matrix: Water Data Release Authorized:

Reported: 01/06/12

Date Extracted: 01/03/12 Date Analyzed: 01/05/12 00:48 Instrument/Analyst: ECD7/JGR

GPC Cleanup: No Sulfur Cleanup: Yes Sample ID: MB-010312 METHOD BLANK

QC Report No: UC83-CDM, Inc.

Project: Rainier Commons 79179-78891-Task 3 Storm

Date Sampled: NA Date Received: NA

Sample Amount: 500 mL Final Extract Volume: 1.0 mL Dilution Factor: 1.00

Silica Gel: No Acid Cleanup: Yes

| CAS Number | Analyte | RL | Result |
|------------|--------------|------|----------|
| 12674-11-2 | Aroclor 1016 | 0.10 | < 0.10 U |
| 53469-21-9 | Aroclor 1242 | 0.10 | < 0.10 U |
| 12672-29-6 | Aroclor 1248 | 0.10 | < 0.10 U |
| 11097-69-1 | Aroclor 1254 | 0.10 | < 0.10 U |
| 11096-82-5 | Aroclor 1260 | 0.10 | < 0.10 U |
| 11104-28-2 | Aroclor 1221 | 0.10 | < 0.10 U |
| 11141-16-5 | Aroclor 1232 | 0.10 | < 0.10 U |

Reported in µg/L (ppb)

PCB Surrogate Recovery

| · · · · · · · · · · · · · · · · · · · | |
|---------------------------------------|-------|
| Decachlorobiphenyl | 93.5% |
| Tetrachlorometaxylene | 82.2% |

E0000:00009